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APPLICATION NO).	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/078,252		02/16/2002	Greg North	LYRN006US0	3245
58293	7590	11/09/2006		EXAMINER	
		OUSTON P.C.	NGO, CHUONG D		
9442 N. CAPITAL OF TEXAS HIGHWAY ARBORETUM PLAZA ONE, SUITE 500				ART UNIT	PAPER NUMBER
AUSTIN,	AUSTIN, TX 78759			2193	
				DATE MAILED: 11/09/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
	Office Action Commence	10/078,252	NORTH ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Chuong D. Ngo	2193				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	l. lely filed the mailing date of this communication. O (35 U.S.C. 8 133)				
Status							
1) 🛛	Responsive to communication(s) filed on 27 Se	entember 2006.					
	This action is FINAL . 2b) ☐ This action is non-final.						
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
	Claim(s) 1-18 and 20-48 is/are pending in the a	annlication					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) 18,20-23 and 25-27 is/are allowed.						
	Claim(s) <u>1,2,6,8-13,17,24,28-34,36,37,39,44 and 45</u> is/are rejected.						
	Claim(s) <u>3-5,7,14-16,35,38,40-43 and 46-48</u> is/are objected to.						
	Claim(s) are subject to restriction and/or election requirement.						
	on Papers	oloolon roquirement.					
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	nder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the portified conice not received.							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment	(s)						
_	e of References Cited (PTO-892)	4) Interview Summary (PTO-413)				
2) 🔲 Notice	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:							
. apei		6)					

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DETAILED ACTION

- 1. Claim 41 is objected to as being the same as claim 40.
- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 3. Claims 1,2,6,8-13,17,24,28-34,36,37,39,44 and 45 are rejected under 35 U.S.C. 102(a) as being clearly anticipated by Fairclough et al. (WO 01/29652 A2)

As per claims 1,2,13,17,24,28-34,44 and 45, Fairclough et al. discloses in figures 1, an apparatus for performing exponentiation having a set of exponentiators (30), and in figures 1 and 3 a chaining controller (3,4,5,23,24,26) to instruct the exponentiators to flexibly chain subsets of the exponentiators to act as computational chains to perform exponentiations of differences sizes including 512, 1024 and 2048 bits as claimed (see page 9, line10-20, and Table 1).

As per 6 and 8, Fairclough et al. discloses on page 4, line28, that exponentiation is base on Montgomery algorithm. Therefore, each exponentiator (30) inherently comprises a multiplier data path as claimed.

As per claims 9-12, Fairclough et al. also discloses in figure 3, the number of exponentiators is four, and each is adapted to perform 512-bit numbers (see Table 1).

As per claims 36-37 and 39 Fairclough et al. disclose in figure 1 a the chaining controller including DMA controller (see page 6, lines 20-30).

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4. Claim 3-5,7,14-16,35,38,40,42,43 and 46-48 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

- 5. Claims 18,20-23 and 25-27 are allowed.
- 6. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.
- 7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong D. Ngo whose telephone number is (571) 272-3731. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chuong D Ngo Primary Examiner Art Unit 2193

Ilw for

11/03/2006